

### **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) An apparatus for producing nanofiber utilizing electrospinning comprising:
  - a supply unit for supplying polymer materials of the liquid state used to produce fibers;
  - a spinning unit having at least one spinning nozzle pack in which a plurality of spinning nozzles for discharging the polymer materials supplied by the supply unit in a charged filament form are arranged in series;
  - a collector installed below the spinning unit for piling the charged filament discharged by the spinning unit in a specific ~~thickness; and thickness;~~
  - a control unit charged to have a voltage of same polarity as one of the charged filament and positioned at both longitudinal sides of the spinning nozzle pack ~~between the spinning unit and the collector~~ for guiding the stream of the charged filament in order to prevent repulsion and dispersion of the charged filaments discharged from ~~each spinning nozzle~~ spinning nozzles installed at both ends of the spinning nozzle pack;
  - an induction unit positioned between the control unit and the collector to surround the filament stream for inducing the charged filament stream passing through the control unit toward the collector, a voltage of same polarity and same value as the control unit being applied to the induction unit; and
  - a carrier unit for carrying a piling material to which the charged filament is to be adhered and which is positioned above the collector.
2. (cancelled)

3. (currently amended) The apparatus according to claim 1-~~claim 1 or 2~~, further comprising a transfer mount for reciprocating the spinning unit at a predetermined speed.

4. (original) The apparatus according to claim 3, further comprising an air conditioning unit for inhaling air into an air layer between the spinning unit and the collector and discharging a solvent from the air layer to outside.

5. (original) The apparatus according to claim 4, wherein the spinning unit includes at least one spinning nozzle pack in which the spinning nozzles are arranged in series.

6. (original) The apparatus according to claim 5, wherein each spinning nozzle pack is configured so that the spinning nozzles have gradually shorter length outward from the spinning nozzle located at a center portion.

7. (currently amended) The apparatus according to claim 1-~~claim 2~~, wherein the control unit is spaced apart from the adjacent spinning nozzle as much as about 1 to about 20 cm.

8. (original) The apparatus according to claim 1, wherein the collector includes a conveyor belt rotating at a speed of about 0.1 to 30 m/min.

9. (original) The apparatus according to claim 1, wherein the collector includes a rotating drum rotating at a speed of about 5 to 50 rpm.

10. (cancelled)

11. (currently amended) A spinning nozzle pack for forming a polymer web by electrostatically spinning a solution used as fiber-forming material, comprising:

a body having a supplier for supplying the solution and a receiver for receiving the supplied solution;

an electric connector mounted on the body to be sunk in the solution for charging the solution when voltage is supplied thereto; and

a plurality of spinning nozzles, each having a capillary tube for discharging the solution charged by the electric connector in a fine ~~filament form~~ filament form,

wherein the electric connector is made in a shape of a conductor board or a conductor stick of a predetermined length and has valleys and ridges periodically formed along a longitudinal direction thereof; and

wherein the ridges are fit on the center of the spinning nozzles.

12. (currently amended) The spinning nozzle pack according claim 11 ~~claim 1~~, wherein the spinning nozzles are configured so that lengths of the capillary tubes are gradually short toward both sides in the longitudinal direction of the spinning nozzle pack from the spinning nozzle located at a center portion.

13. (original) The spinning nozzle pack according claim 11 or 12, wherein the body is made of engineering plastic belonging to polyetheretherketon, fluorine series or polyamide series.

14. (cancelled)

15. (original) The spinning nozzle pack according claim 11 or 12, further comprising: a filter installed in the receiving part for removing gelation particles and waste materials in the charged solution.

16. (original) The spinning nozzle pack according claim 15, further comprising: a distribution board installed in the receiving part for regularly distributing the charged solution passing through the filter toward each spinning nozzle.

17. (previously presented) The spinning nozzle pack according claim 11 or claim 12, wherein the spinning nozzle can be combined in an orifice of the body selectively.

18. (original) The spinning nozzle pack according claim 11 or 12, wherein the spinning nozzle is made of one selected from the group consisting of polypropylene, polyethylene, polyvinylidenefluoride, polytetrafluoroethylene series and polyetheretherketon, polyamide series, or corrosion resistance metal.

19. (original) The spinning nozzle pack according claim 11 or 12, wherein the capillary tube is integrally formed with the body.

20. (original) The spinning nozzle pack according claim 19, wherein the capillary tube has a tilt angle of substantially 3 to 60 degrees to a vertical central line so as to have a shape of a circular cone in which a diameter grows narrower toward a lower end thereof.

21. (original) The spinning nozzle pack according claim 11 or 12, wherein each capillary tube substantially has an inner diameter of 0.05 to 2 mm, an outer diameter of 0.1 to 4 mm, and a length of 0.5 to 50 mm.

22. (original) The spinning nozzle pack according claim 11, wherein the body is capable of sealing up the receiving part, and includes a cover in which the supply unit is provided.